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CATALOG SECTION 2D

THE MILLER COMPANY · · MERIDEN, CONNECTICUT

(1938)



Mer-Tung LIGHTING EQUIPMENT

MERCURY-MAZDA LAMPS

FI

The Quick Story

ON THE NEW MERCURY LAMPS

They provide twice as much light as do incandescents of the same wattage; they are cooler, and they last twice as long.

At the same time they have a physical form which permits their light to be controlled and modified by properly designed reflector equipment. And they may be readily used in combination with MAZDA lamps to provide a high value of illumination pleasing to eyes and which blends well with daylight.

Thus Mercury-MAZDA lighting presents these advantages:

1. Economical to operate.
2. Protects eyes and improves visibility.
3. Speeds work.
4. Reduces errors, nervous strain, fatigue and accidents.
5. Improves quality of work.
6. Psychologically cool and actually cool
... which is especially valuable when air conditioning is installed or contemplated and where higher values of illumination are desired.
7. Mercury lighting equipment can be installed to increase the lighting intensity without disturbing or changing wiring.

THE MERCURY LAMPS

250 WATT SIZE

| | |
|----------------------------|--|
| Watts | 250 |
| Bulb | T-9 Clear, Opaque Coating at Tip End |
| Base | Medium Screw with Opal Glass Extension |
| Maximum Diameter | 1 1/16" |
| Maximum Overall Length | 8" |
| Light Center Length | 5" |
| Approximate Initial Lumens | 7,500 |
| Initial Lumens per Watt | 30 |
| Average Life | 2,000 hours |
| Frequency | 60 Cycles |
| Burning Position | Any |

*Burning position should always be specified in ordering.

400 WATT SIZE

| | |
|------------------------|--------------------------------------|
| Watts | 400 |
| Bulb | T-16 |
| Base | Mogul Screw |
| Finish | Clear |
| Maximum Overall Length | 13 Inches |
| Light Center Length | 7 3/4 Inches |
| Approximate Lumens | 16,000 |
| Rated Lumens per Watt | 40.0 |
| Average Life | 2,000 hours |
| Frequency | 60 cycles |
| *Burning Position | Vertical-Base Up, Vertical-Base Down |

THE CHARACTERISTICS OF THE 250 WATT AND 400 WATT MERCURY LAMPS & OPERATING EQUIPMENT

These new lamps are self starting and require about 8 to 10 minutes to develop full lumen output. If the current is interrupted momentarily, the lamp will relight after it has cooled to approximate room temperature. This interval varies up to about 10 minutes for the 400-watt lamp and is somewhat shorter for the 250-watt size.

The lumen output of the 400-watt size exceeds that of the 750-watt incandescent lamp, which has a rated output of 14,550 lumens; while the output of the 250-watt Mercury lamp is half way between that of the 300 and 500-watt incandescent lamp. The rated life of both sizes is 2000 hours.

The color quality of the light is similar to — although somewhat whiter, than that of the Cooper-Hewitt vapor lamp. The major portion of the visible energy is produced in the center

or yellow-green area of the visible spectrum. The balance of the energy produced is at the blue end; red is entirely lacking—a fact which helps account for their lower space heating effect and their lower radiant heating effect. The 250-watt size contains slightly less yellow.

Each lamp requires a special transformer, for use either on 208 to 240 volt lines, or on 107 to 123 volt lines.

Manufacturers of the Mercury Lamp have available several types of each — together with auxiliaries to meet the various installation requirements of location, wiring, mounting and power factor control. The Miller Company does not supply these lamps nor their operating equipment, but will gladly refer to the lamp manufacturers, inquiries for complete information regarding them.

A WORD ABOUT THE MILLER COMPANY

Since 1844 the Miller Company has been manufacturing lighting equipment. Then it was oil lamps. Within a few years after Edison's invention of the incandescent lamp, Miller began making electric lighting equipment.

Today the Miller Company's plant at Meriden, Connecticut, is the largest and most complete in the world devoted exclusively to the production of lighting equipment of all kinds for commercial, industrial and home lighting purposes.

Like a silken thread running through bank notes, the background of Miller progress has always been engineered lighting. By this we mean that Miller does not simply make good lighting equipment and trust to chance or luck for successful installations.

Miller has a highly efficient lighting engineering staff at its plant which is continually engaged in lighting research, collaborating with the engineering departments of the great incandescent lamp manufacturers of the country to develop not only more efficient lighting in general, but studying closely the development of new lamps as fast as they are produced so as to

be ready with suitable lighting equipment for effective use of such lamps. Thus when the mercury lamp was ready, Miller was ready with proper equipment for its use.

But Miller engineered lighting services do not stop with the production of correct and efficient equipment. Miller employs a staff of trained, experienced lighting field engineers whose chief concern is the application of lighting to industrial and commercial needs.

They study the lighting problems of stores, office buildings, schools and industry in all their ramifications — on the spot. They then make lighting equipment recommendations, based upon the results desired and plan complete or partial installations in all their details.

This is a contribution to commerce and industry which transcends even the manufacture of a good product. This service is available to you without charge. It is part of Miller Service.

On the following pages are shown splendid examples of efficient lighting equipment based upon the intelligent, economical and efficient use of this new light source in combination with MAZDA lamps.

MILLER MER-TUNG CO. EQUIPMENT FOR MER



Figure A



Figure B

Included in the Miller line are Direct, Indirect and Semi-Indirect fixtures and Indirect Portable Torcheres, all using standard Mazda lamps in combination with one Mercury Lamp. With the maximum auxiliary wattage of Mazda lamps and the Mercury Lamp, the resultant illumination is whiter in appearance than with Mazda lamps alone, and is suitable for the lighting of stores, offices, drafting rooms and similar locations. In many applications, a satisfactory color quality is obtainable with less auxiliary wattage.

The construction views on this page show the standard wired assembly used in the construction of all suspension fixtures. In the 400 watt size a shallow aluminum reflector carries the mogul socket for the Mercury Lamp (Base Down Burning Type), four medium sockets for auxiliary Mazda lamps, and two polarized flush plug receptacles to which the sockets are wired (Fig. B). This assembly is supported by hooks from the tubular arms of the suspension stem in which are wires for separate Mercury and Mazda circuits with polarized plug terminals to complete the electrical connection between these two members. The Mercury and Mazda lamp circuits are of No. 14 AF wire, entirely separate and completely polarized. To complete a fixture, it is only necessary to clamp the proper reflector to the suspension by means of the socket cover and knob as illustrated. It can be readily appreciated that this construction permits great freedom in the design and finish of reflectors to be attached to this suspension. In the 250 watt size the mercury lamp is held in a horizontal position just below the top of the deflector and immediately above the Mazda lamp bulb.

Fixtures for the 400 watt size Mercury lamp are equipped with a cylinder of diffusing glass which surrounds the Mercury lamp. The purpose of this glass cylinder is to diffuse the light from the clear bulb of the Mercury lamp. It is regularly supplied in etched crystal glass but may be obtained in blue etched glass where additional color correction is desired.

For easy cleaning or relamping, the support can be released, allowing the entire body of the fixture to swing downward without disturbing the wiring connections.

COMBINATION LIGHTING FIXTURES AND MAZDA LAMPS

TRANSFORMER HOUSING AND OPERATING EQUIPMENT

Each fixture is supplied standard with shallow ceiling canopy for installation where the transformer for operating the Mercury Lamp is to be located at a distance from the fixture. This transformer can be assembled in the fixture suspension and concealed by a suitable housing. (See Fig. A.)

The standard housing No. H-823 is equipped with crowfeet to take G. E. Vapor Lamp Company's coil and core transformers. Housings for other transformers can be supplied as special. *The transformers are not supplied by Miller*, but should be specified to insure proper crowfeet for mounting.

250 watt coil and core transformers require the following crowfeet.

Crowfeet No. 31156 A & B is for 115 volt, 60 cycle, transformer No. 58G41
Crowfeet No. 31156 C & D is for 230 volt, 60 cycle, transformer No. 58G51
Crowfeet No. 31156 C & D is for 115 volt, 50 cycle, transformer No. 58G45

400 watt coil and core transformers require the following crowfeet.

Crowfeet No. 31156 A & B is for 115 volt, 60 cycle, transformer No. 58G1
Crowfeet No. 31156 A & B is for 230 volt, 60 cycle, transformer No. 58G11
Crowfeet No. 31156 C & D is for 115 volt, 50 cycle, transformer No. 58G5
Crowfeet No. 31156 C & D is for 230 volt, 50 cycle, transformer No. 58G15

SPACING & MOUNTING HEIGHTS

The following spacing-mounting height data gives the maximum spacings recommended for various ceiling heights, and the recommended hanging distance of the top of the bowl below the ceiling for the maximum spacing.

| CEILING HEIGHT | MAXIMUM SPACING OF OUTLETS | MOUNTING HEIGHT — TOP OF REFLECTOR TO CEILING |
|----------------|-------------------------------|--|
| 12 ft. | 15 ft. | 27 in. |
| 14 ft. | 18 ft. | 33 in. |
| 16 ft. | 22 ft. | 39 in. |
| 18 ft. | 25 ft. | 45 in. |
| 20 ft. | 28 ft. | 51 in. |
| 22 ft. | 31 ft. | 57 in. |
| 24 ft. | 34 ft. | 63 in. |



Construction view showing
lamp position 250 watt Mer-
cury-Mazda fixtures.



Construction view showing
lamp position combination
400 watt Mercury-Mazda
fixtures. The diffusing cyl-
inder is omitted to show de-
tail clearly.



School lighting with Miller Mer-tung equipment with Mercury-Mazda lamps. At the Laurel School, Shaker Heights, Ohio. Miller Mer-tung equipment delivers thirty-five foot candles of glareless light to keep students alert and save their eyes.

The importance of protecting children's eyesight and the helpfulness of good lighting as a supreme factor in eye conservation are now engaging the attention of school executives everywhere. It is recognized that where ample, glareless lighting is provided, learning is speeded and bookwork becomes more pleasant and attractive because it is accomplished with greater ease and efficiency. Effortless seeing thus becomes an important and helpful factor in modern education.



Miller Mercury-Mazda Combination Lighting in the offices of Cannon Mills at Concord and Kannapolis, N.C.

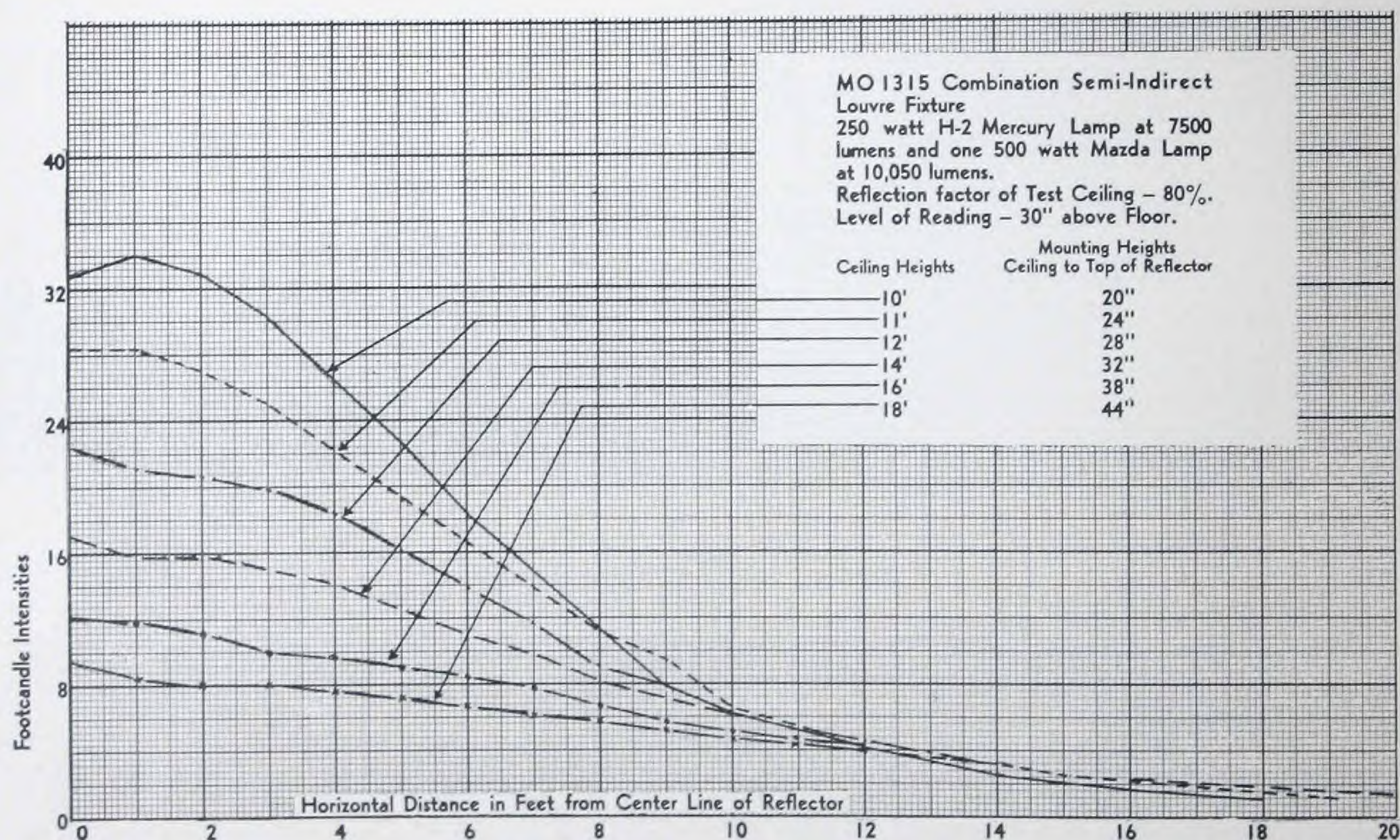
Office work is mostly eye-work. Modern scientific lighting enables it to be done with precision, thoroughness, and speed. In the offices of the Cannon Mills, lighting was modernized with Miller Mercury-Mazda Lighting fixtures . . . without the necessity of rewiring.

All types of office work are speeded up by Miller Mercury-Mazda lighting. Efficiency is increased . . . errors are reduced . . . and the morale level of the personnel is raised. Generous office lighting inspires confidence and invites new business. Every type of interior may be adequately lighted with Miller Mercury-Mazda lighting equipment.

MO 1315

SEMI-INDIRECT FIXTURE

Graceful lines and the high lighting efficiency of this louvre type lighting fixture make it particularly suited to modern commercial interiors. The outer rims of polished aluminum with black band set off its dull aluminum louvres and give the fixture smart distinction. It provides the glareless, evenly diffused lighting so highly desirable in mercantile and business establishments. An appreciable amount of light is transmitted through the glass bottom disc.



Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at six different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.

MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



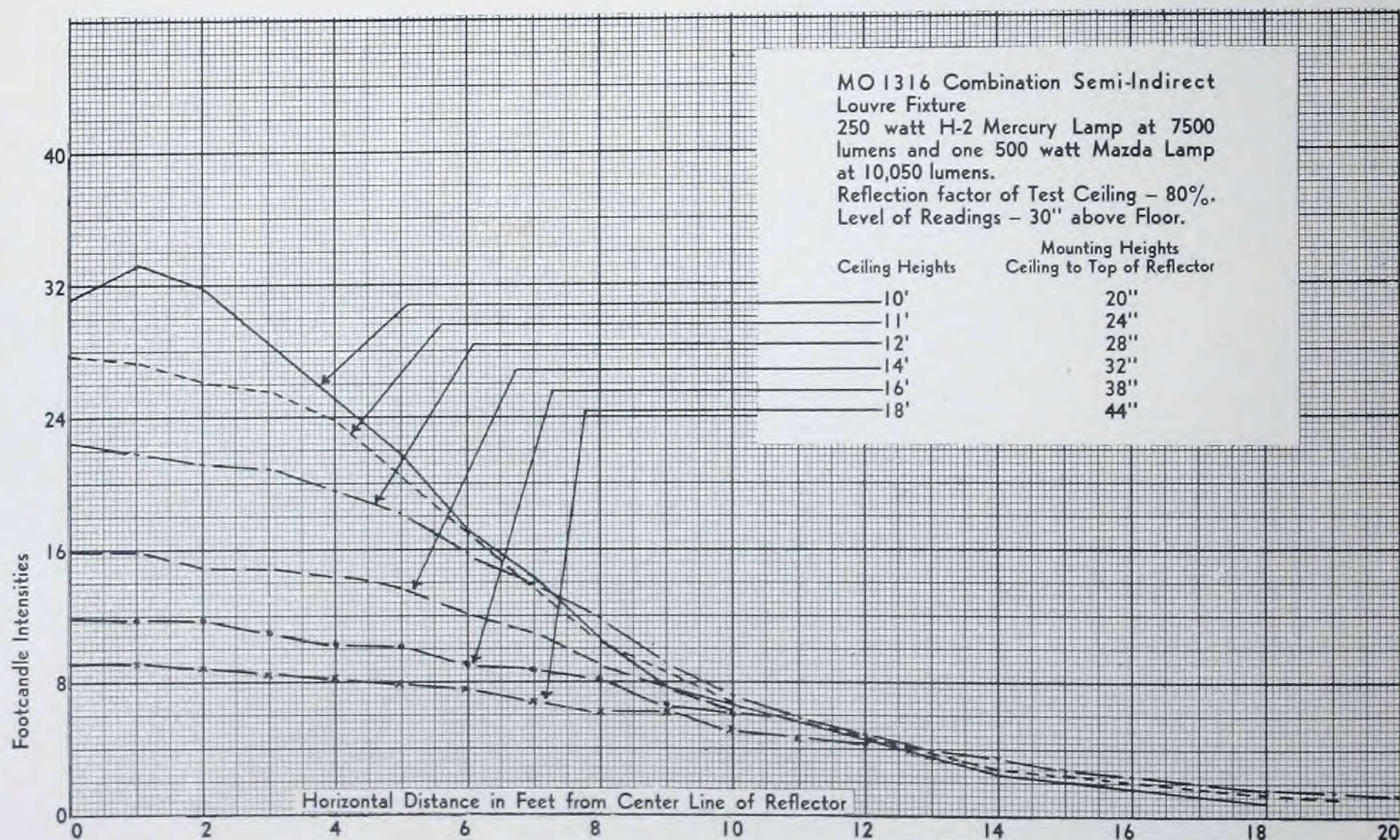
| CATALOG NUMBER | DELIVERY CODE | FINISH | DIMENSIONS — INCHES | | | LENGTH TUBE STEM | STD. PKG. | |
|---|------------------|---|---------------------|---|-------------------|------------------------|-----------|----------|
| | | | DIAM. REFLECTOR | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | | QTY. | WT. LBS. |
| MO 1315 (without transformer housing) | C | Dull and Polished Aluminum and Black | 20 | 32 | 40 | 24 | 1 | 25 |
| MO 1315—H 823 (with transformer housing) | C | Dull and Polished Aluminum and Black | 20 | 36 | 44 | 24 | 1 | 26 |

When desired with transformer housing, order as MO 1315 — H 823 Dull and Polished Aluminum and Black finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has medium socket for one 250 watt size mercury lamp and Mogul socket for one 300 or 500 watt Mazda lamp.

MO 1316

SEMI-INDIRECT FIXTURE

A Semi-Indirect Fixture of the Louvre type with glass bottom plate. Encircling rings of polished aluminum contrasting pleasingly with the dull aluminum finish of the louvres, makes this an impressive fixture design. Its refined, smart lines and lighting efficiency make it especially effective in department stores, specialty shops, offices, display rooms, hotel dining rooms and similar locations, where a feeling of luxury, as well as comfortable, efficient illumination is desired.



Illumination values in curve above are taken from actual test installations. These show intensities obtained from a single unit at given distances from center line of reflector at six different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.

MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



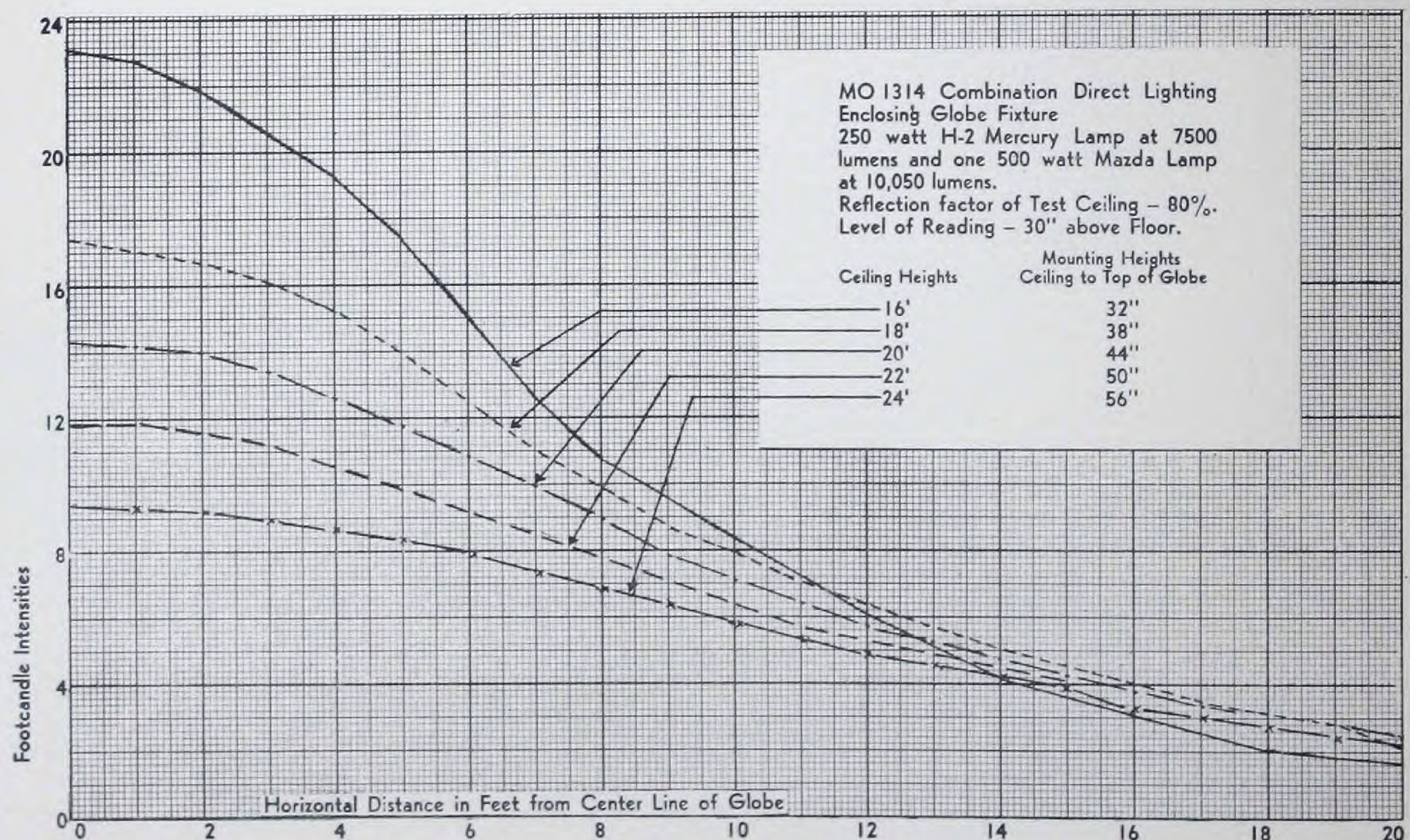
| CATALOG NUMBER | DELIVERY CODE | FINISH | DIMENSIONS — INCHES | | | | STD. PKG. | |
|---|------------------|--------------------------------------|---------------------|---|-------------------|------------------------|-----------|----------|
| | | | DIAM. REFLECTOR | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | LENGTH TUBE STEM | QTY. | WT. LBS. |
| MO 1316 (without transformer housing) | C | Dull Aluminum with Polished Edges | 20 | 32 | 41 | 24 | 1 | 25 |
| MO 1316—H 823 (with transformer housing) | C | Dull Aluminum with Polished Edges | 20 | 36 | 45 | 24 | 1 | 26 |

When desired with transformer housing, order as MO 1316 — H 823 Dull Aluminum with Polished Edges. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has medium socket for one 250 watt size mercury lamp and Mogul socket for one 300 or 500 watt Mazda lamp.

MO 1314

DIRECT LIGHTING FIXTURE

A totally enclosed globe fixture of high quality Genco diffusing glass for direct lighting. Simple and practical in design, it fits in with any type of interior with exceptionally high ceilings. It is ideal for use in stores, auditoriums, armories, and similar commercial locations.



Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at five different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.

MILLER *Mer-tung*



H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



| CATALOG NUMBER | DELIVERY CODE | FINISH | DIAM. | DIMENSIONS — INCHES | | | LENGTH TUBE STEM | STD. PKG. | |
|---|------------------|--------|-------|---------------------|-------------------|--------|------------------------|-----------|----------|
| | | | | LENGTH OVERALL | FIXTURE LENGTH | FITTER | | QTY. | WT. LBS. |
| MO 1314 (without transformer housing) | D | Nuvon | 22 | $45\frac{1}{2}$ | $32\frac{1}{2}$ | 10 | 18 | 1 | 30 |
| MO 1314—H 823 (with transformer housing) | D | Nuvon | 22 | $49\frac{1}{2}$ | $36\frac{1}{2}$ | 10 | 18 | 1 | 31 |

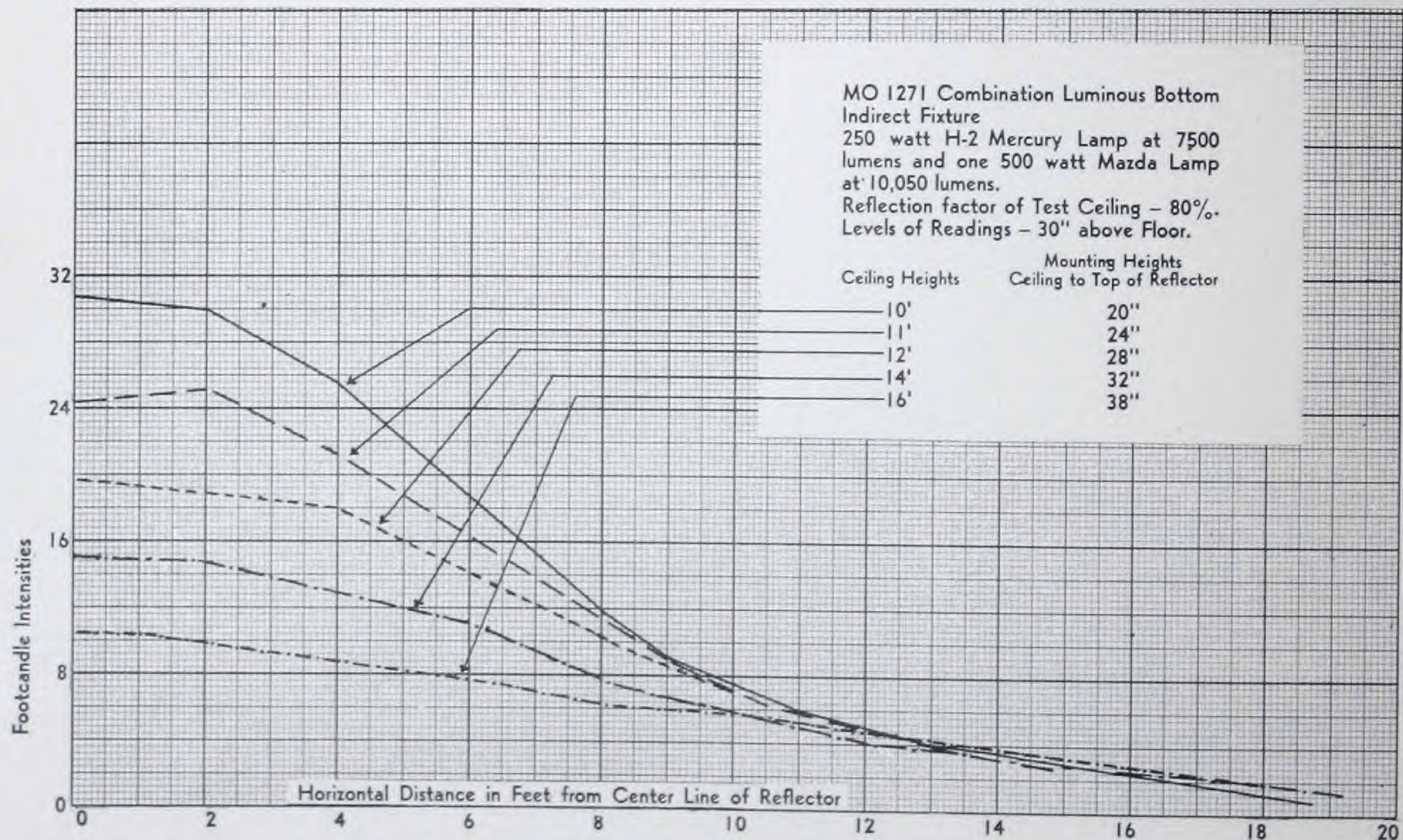
Glassware only for above should be ordered as 5264x22 Genco.
When desired with transformer housing, order as MO 1314 — H 823 Nuvon finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has medium socket for one 250 watt size mercury lamp and Mogul socket for one 300 or 500 watt Mazda lamp.

MO 1271

LUMINOUS BOTTOM INDIRECT FIXTURE

This fixture is recommended for use where abundant, soft lighting is required for the very best seeing conditions — and is especially recommended for stores, offices, schools, drafting rooms, and similar interiors.

Simple, yet graceful and dignified in design, it consists of a steel bowl, porcelain enameled white inside, light ivory outside. A white porcelain bottom baffle which is part of the reflector reduces brightness of glass bottom disc and increases indirect light output.



Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at five different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.



MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



| CATALOG NUMBER | DELIVERY CODE | FINISH | DIAM. REFLECTOR | DIMENSIONS — INCHES | | LENGTH TUBE STEM | STD. PKG. | |
|---|------------------|-----------------|--------------------|---|-------------------|------------------------|-----------|----------|
| | | | | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | | QTY. | WT. LBS. |
| MO 1271 (without transformer housing) | C | Ivire and Nuvon | 20 | 35 | 41 | 24 | 1 | 20 |
| MO 1271—H 823 (with transformer housing) | C | Ivire and Nuvon | 20 | 39 | 45 | 24 | 1 | 21 |

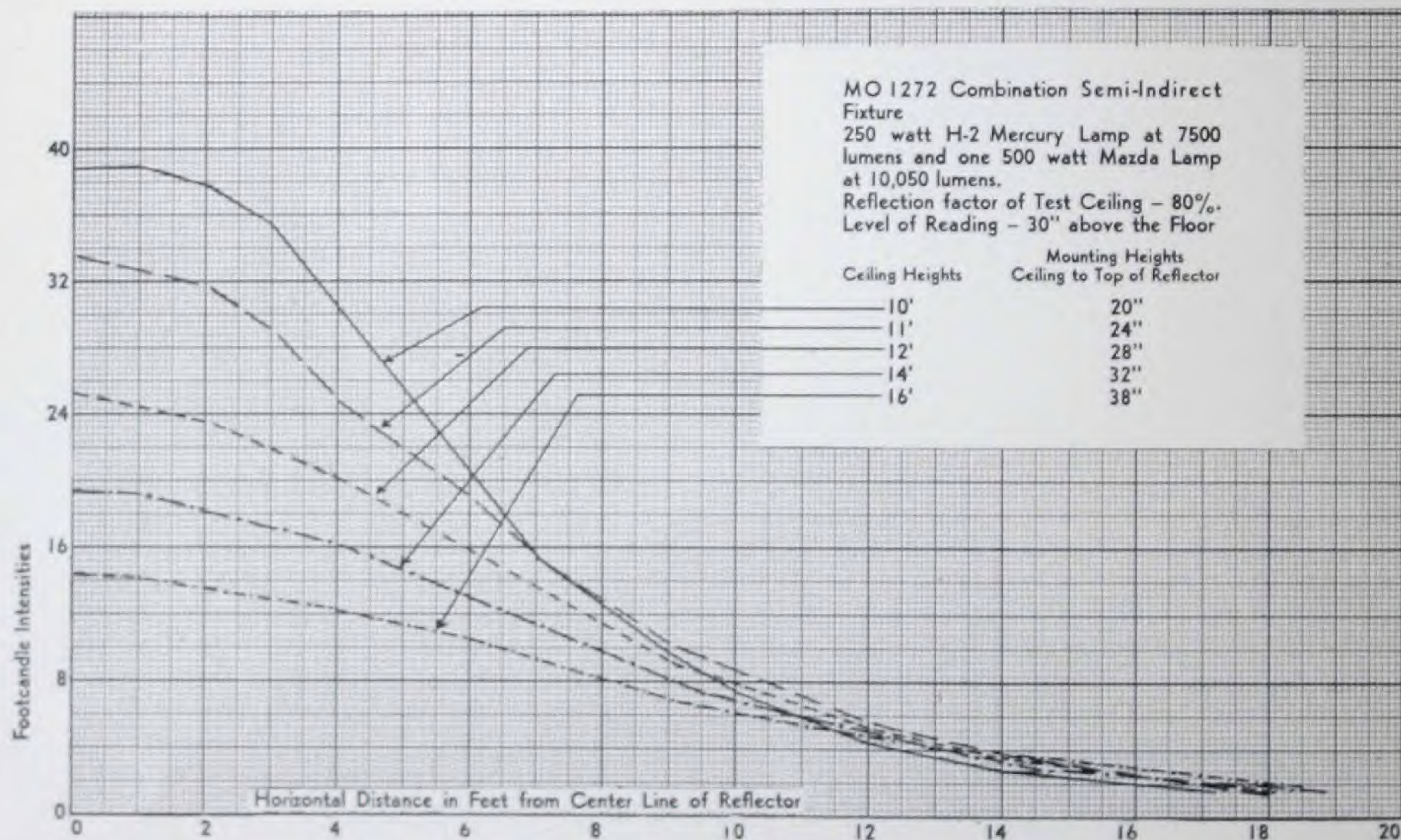
When desired with transformer housing, order as MO 1271 — H 823 Ivire and Nuvon finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has medium socket for one 250 watt size mercury lamp and Mogul socket for one 300 or 500 watt Mazda lamp.

MO 1272

SEMI-INDIRECT FIXTURE

When close eye-work is the rule, this semi-indirect fixture is recommended. Ample indirect light is reflected to the ceiling from the porcelain enameled white inner reflecting surface, while an appreciable amount of light is transmitted through the glass bottom disc to the working plane. The steel porcelain enameled bowl is light ivory outside.

Every type of business office—banks, insurance companies, drafting rooms, and similar places, will find work output and accuracy increased by the use of this fixture. In retail stores it gives pleasing general illumination, as well as direct selling light on the merchandise.



Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at five different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.



MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



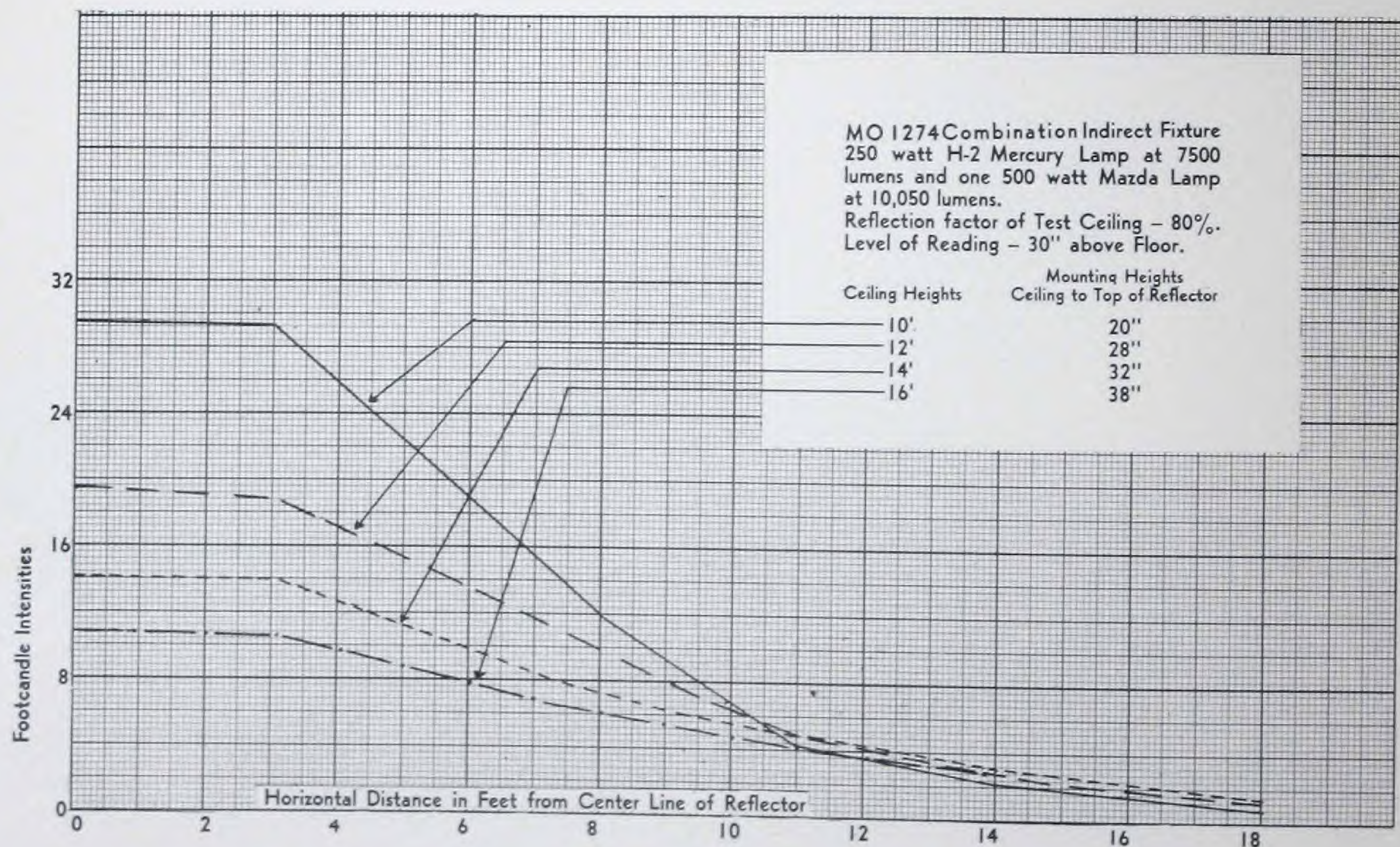
| CATALOG NUMBER | DELIVERY CODE | FINISH | DIMENSIONS — INCHES | | | | STD. PKG. | |
|---|------------------|-----------------|---------------------|---|-------------------|------------------------|-----------|----------|
| | | | DIAM. REFLECTOR | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | LENGTH TUBE STEM | QTY. | WT. LBS. |
| MO 1272 (without transformer housing) | C | Ivire and Nuvon | 20 | 35 | 41 | 24 | 1 | 20 |
| MO 1272—H 823 (with transformer housing) | C | Ivire and Nuvon | 20 | 39 | 45 | 24 | 1 | 21 |

When desired with transformer housing, order as MO 1272 — H 823 Ivire and Nuvon finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has medium socket for one 250 watt size mercury lamp and Mogul socket for one 300 or 500 watt Mazda lamp.

MO 1274

TOTALLY INDIRECT FIXTURE

Refinement and dignity are reflected in the artistic contour of this handsome fixture. It adds prestige and efficient indirect light in commercial establishments, schools, and public buildings. Maximum reflecting efficiency is assured by the durable steel reflector, porcelain enameled white inside and light ivory outside.



Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at four different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.

MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



| CATALOG NUMBER | DELIVERY CODE | FINISH | DIAM. REFLECTOR | DIMENSIONS — INCHES — | | LENGTH TUBE STEM | STD. PKG. | |
|---|------------------|-----------------|--------------------|---|-------------------|------------------------|-----------|----------|
| | | | | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | | QTY. | WT. LBS. |
| M 1274 (without transformer housing) | D | Ivory and Nuvon | 18 | 35 | 42 | 24 | 1 | 22 |
| MO 1274—H 823 (with transformer housing) | D | Ivory and Nuvon | 18 | 39 | 46 | 24 | 1 | 23 |

When desired with transformer housing, order as MO 1274 — H 823 Ivory and Nuvon finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has medium socket for one 250 watt size mercury lamp and Mogul socket for one 300 or 500 watt Mazda lamp.

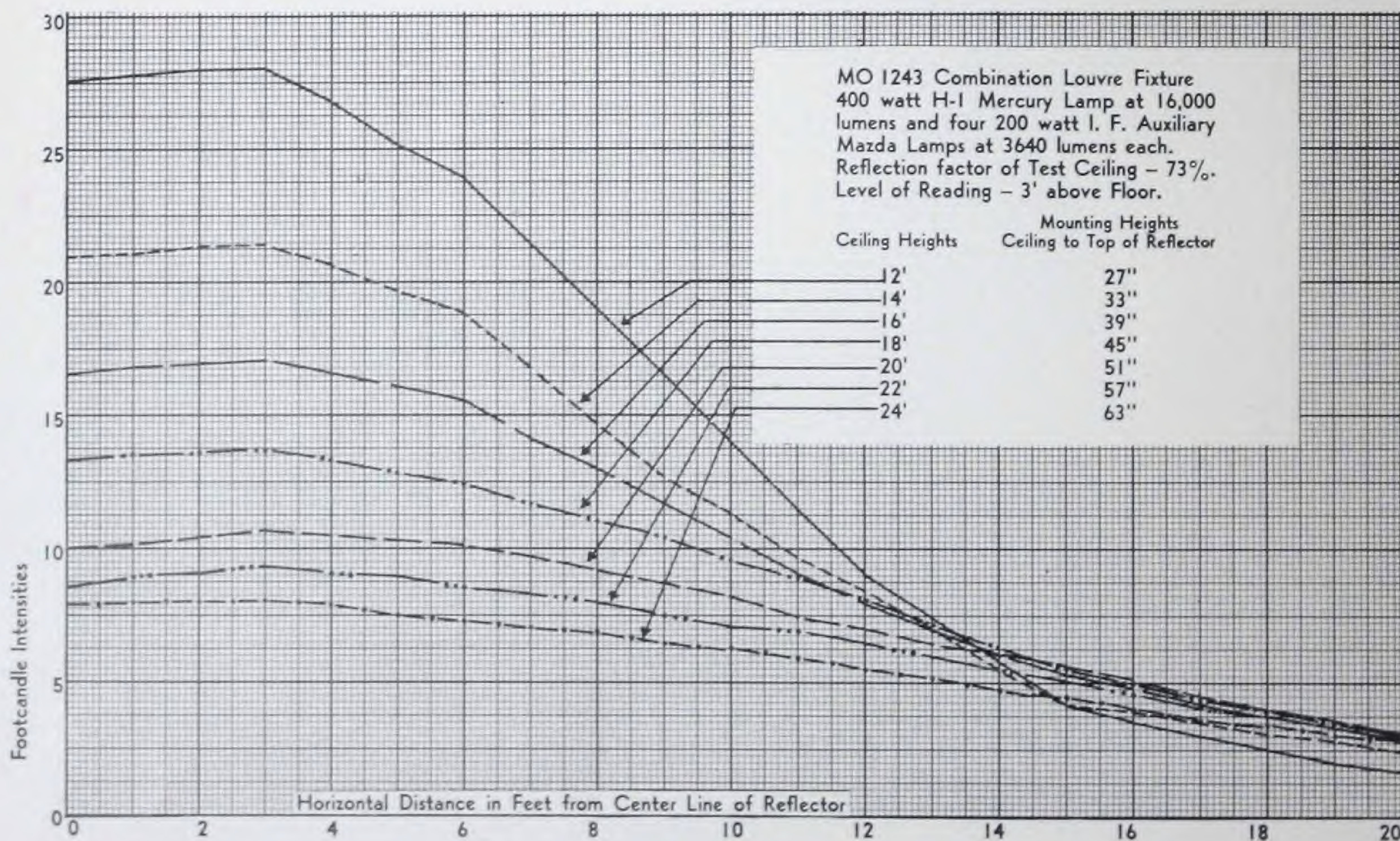
MO 1243

LOUVRE TYPE INDIRECT FIXTURE

Lighting luxury is achieved by this new fixture of aluminum, designed by Miller for MERCURY-MAZDA lighting. When lighted its beauty is enhanced by the soft, luminous glow which bathes the silvery aluminum outside surfaces of the louvres — giving an effect of distinctive charm. And it does a splendid lighting job. The porcelain enameled steel inner liner, assembled in the louvre reflectors, provides an enduring reflecting surface from which a widespread distribution of light is obtained, as the illumination curves show.

This fixture is recommended for business offices where high efficiency lighting, free from glare, is needed for easy, effortless seeing.

It is equally desirable in smart stores and shops where good selling light is needed, yet where the lighting should be unobtrusive, well diffused, and evenly distributed.



Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at seven different mounting heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.



MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



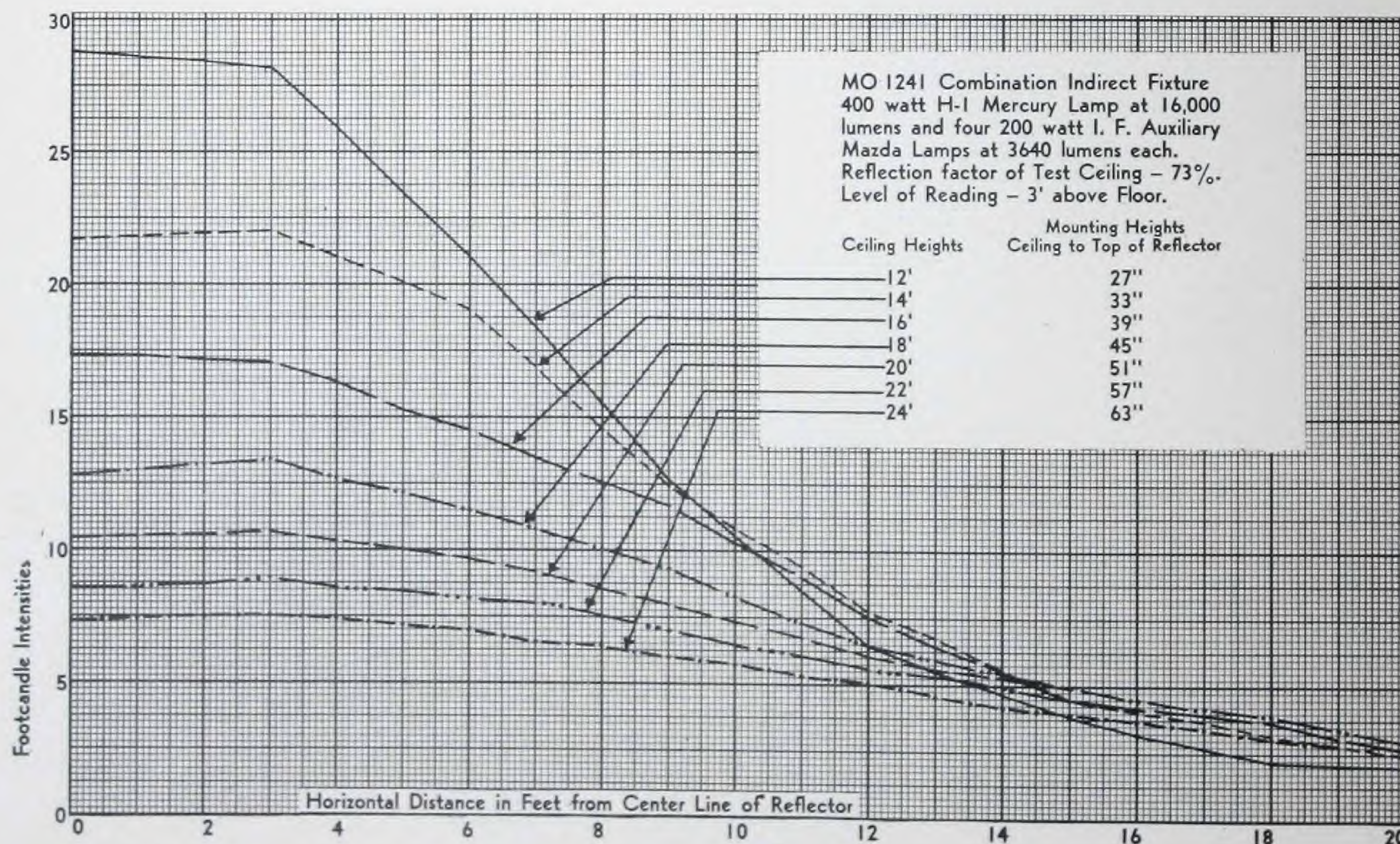
| CATALOG NUMBER | DELIVERY CODE | FINISH | DIAM. REFLECTOR | DIMENSIONS — INCHES — | | LENGTH TUBE STEM | STD. PKG. | |
|---|------------------|--------|--------------------|---|-------------------|------------------------|-----------|----------|
| | | | | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | | QTY. | WT. LBS. |
| MO 1243 (without transformer housing) | C | Nuvon | 32 | $32\frac{1}{2}$ | 48 | 18 | 1 | 75 |
| MO 1243—H 823 (with transformer housing) | C | Nuvon | 32 | $36\frac{1}{2}$ | 52 | 18 | 1 | 76 |

When desired with transformer housing, order as MO 1243 — H 823 Nuvon finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has Mogul socket for one 400 watt size mercury lamp and four medium sockets for four 200 watt Mazda lamps.
Diffusing glass cylinder only for above should be ordered as G 356 CRI.

MO 1241

TOTALLY INDIRECT FIXTURE

Maximum lighting efficiency is combined with pleasing style in this totally indirect fixture. It is recommended for those interiors where close seeing tasks are performed . . . especially banks, offices, schools, drafting rooms. The porcelain enameled steel liner which fits snugly into the outer aluminum reflector insures a widespread distribution of light and permanent light control.



Illumination values in curve above are taken from actual test installations. These show intensities obtained from a single unit at given distances from center line of reflector at seven different mounting heights. Adjacent units will provide similar intensities so that the intensity at any point on the curve will be "built up" with light from surrounding units.



MILLER *Mer-tung*

H 823 Transformer Housing for assembling and concealing transformer in fixture suspension. Consists of a perforated cylinder $4\frac{1}{2}$ inches long, $7\frac{3}{4}$ inches in diameter, with 11 inch canopy ring. Fits inside fixture canopy as illustrated above. Comes complete with crowfeet for mounting transformer (see page 5). The Transformer is not included with it.



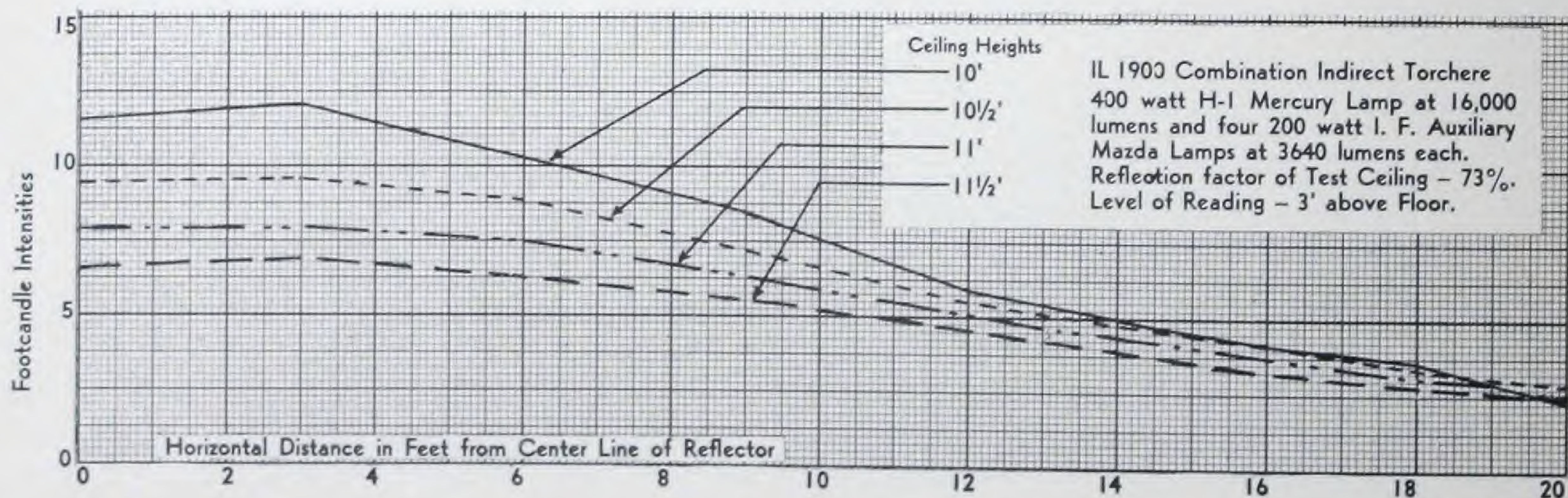
| CATALOG NUMBER | DELIVERY CODE | FINISH | DIAM. REFLECTOR | DIMENSIONS — INCHES | | LENGTH TUBE STEM | STD. PKG. | |
|---|------------------|--------|--------------------|---|-------------------|------------------------|-----------|----------|
| | | | | LENGTH FROM CEILING TO TOP OF REFLECTOR | LENGTH OVERALL | | QTY. | WT. LBS. |
| MO 1241 (without transformer housing) | C | Nuvon | $24\frac{1}{2}$ | $32\frac{1}{2}$ | 48 | 18 | 1 | 75 |
| MO 1241—H 823 (with transformer housing) | C | Nuvon | $24\frac{1}{2}$ | $36\frac{1}{2}$ | 52 | 18 | 1 | 76 |

When desired with transformer housing, order as MO 1241 — H 823 Nuvon finish. Specify transformer to be used in housing to insure proper crowfeet for mounting (see page 5). Has Mogul socket for one 400 watt size mercury lamp and four medium sockets for four 200 watt Mazda lamps.
Diffusing glass cylinder only for above should be ordered as G 356 CRI.

IL 1900

INDIRECT PORTABLE FLOOR TORCHERE

This torchere is admirably suited to locations where a clear ceiling is necessary and where high intensity lighting is desirable. It lends itself particularly to the lighting of modest sized offices, reception rooms, stores, restaurants. This torchere is also suitable in areas with ceiling heights lower than 11 or 12 feet, and with wide spacing of outlets, where the suspension distance required to light the ceiling uniformly would require fixtures to hang too low for best appearance. Likewise, where excessive intensities would be obtained under fixtures on low ceilings, the torchere can be employed on greatly increased spacing to obtain uniform illumination on both ceiling and working plane. It is of aluminum and has porcelain enameled insert which provides an enduring reflecting surface.

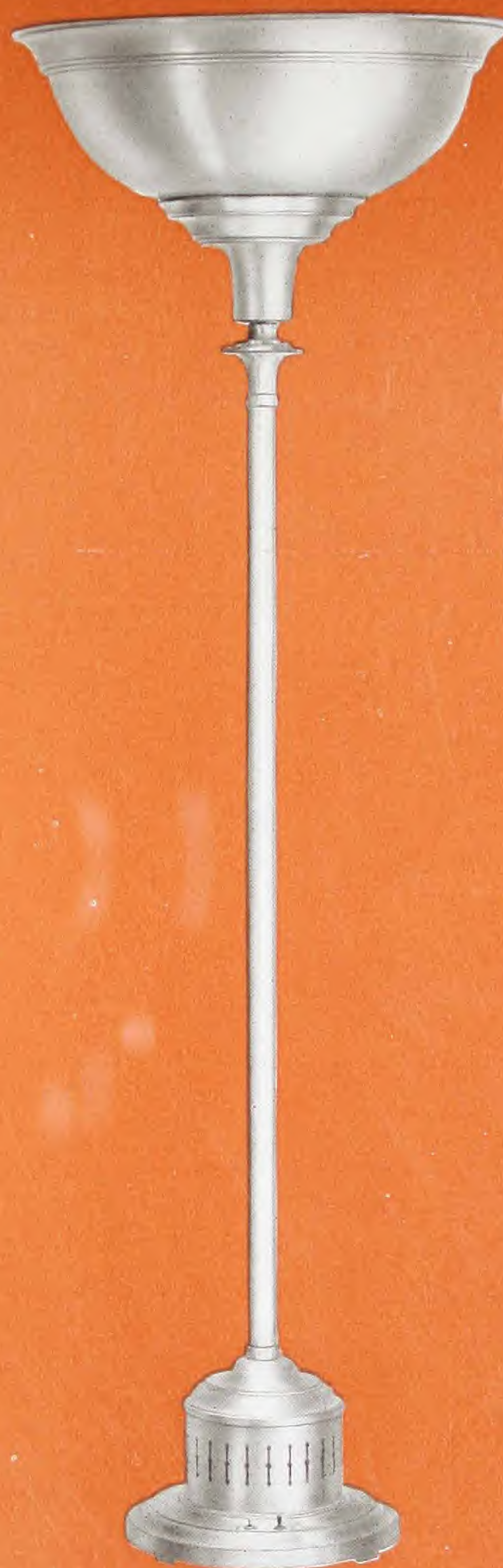


Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at four different ceiling heights. Adjacent units will provide similar values so that the illumination at any point on the curve will be "built up" with light from surrounding units.



MILLER *Mer-tung*

Transformer for 97-127 volt service is supplied and built into this torchere. Line voltage of location where units are to be used must be specified when ordering, so that proper connections can be made before shipping. The transformer has four taps: the 100-volt tap for voltages of 97 to 103; the 107-volt tap for voltages of 103 to 111; the 115-volt tap for voltages of 111 to 119; and the 123-volt tap for voltages of 119 to 127. Separate switches in the base control the Mercury and Mazda circuits.



| CATALOG NUMBER | DELIVERY CODE | FINISH | DIMENSIONS—INCHES— | | QTY. | STD. PKG. WT. LBS. |
|-------------------|------------------|--------|--------------------|--------|------|-----------------------|
| | | | DIAMETER | HEIGHT | | |
| IL 1900 | D | Nuvon | 24½ | 75 | 1 | 175 |

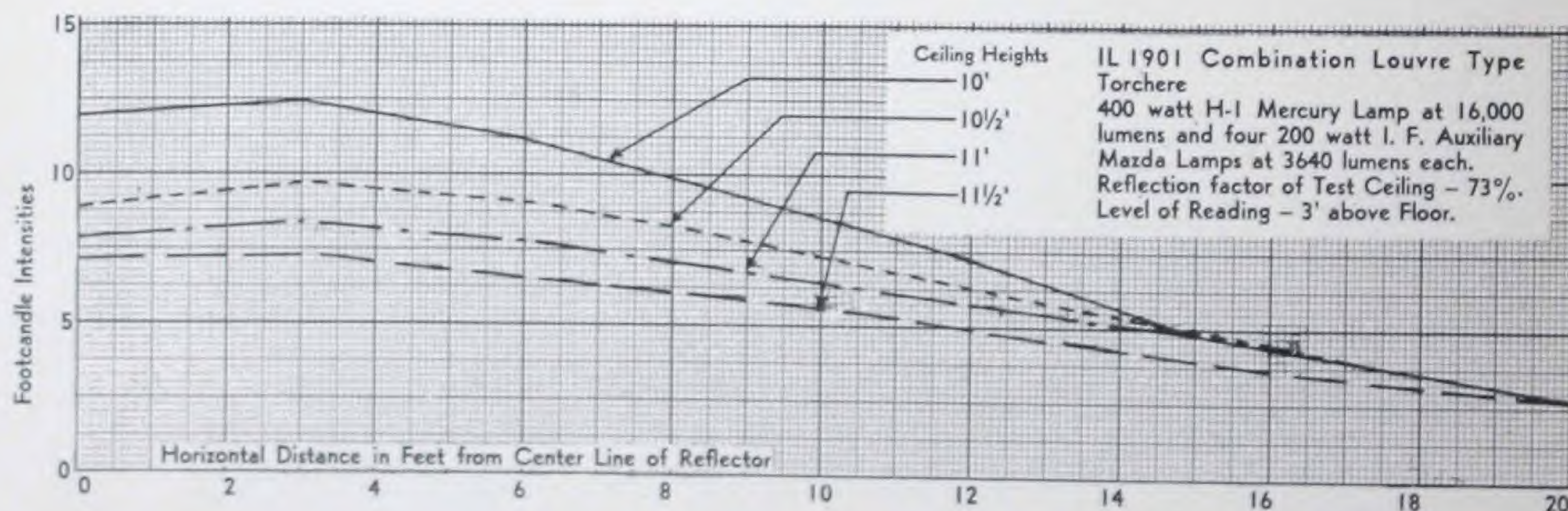
Specify line voltage when ordering.
Has Mogul socket for one 400 watt size mercury lamp and four medium sockets for four 200 watt Mazda lamps.

IL 1901

INDIRECT PORTABLE FLOOR TORCHERE

The beauty of this floor torchere is enriched when lighted. A soft, luminous sheen plays on the lustrous aluminum surfaces of the louvres — giving a pleasant air of hospitality in any business place in which it is used.

Easy maintenance of its high lighting efficiency is assured by the porcelain enameled inner liner which is assembled in the louvre reflectors to provide an enduring reflecting surface. It is recommended for low-ceiling interiors such as the small office, shop, beauty parlor or any location where it is desirable to keep the ceiling clear of fixtures. Likewise, where excessive intensities would be obtained under fixtures on low ceilings, the torchere can be employed on greatly increased spacing to obtain uniform illumination on both ceiling and working plane.

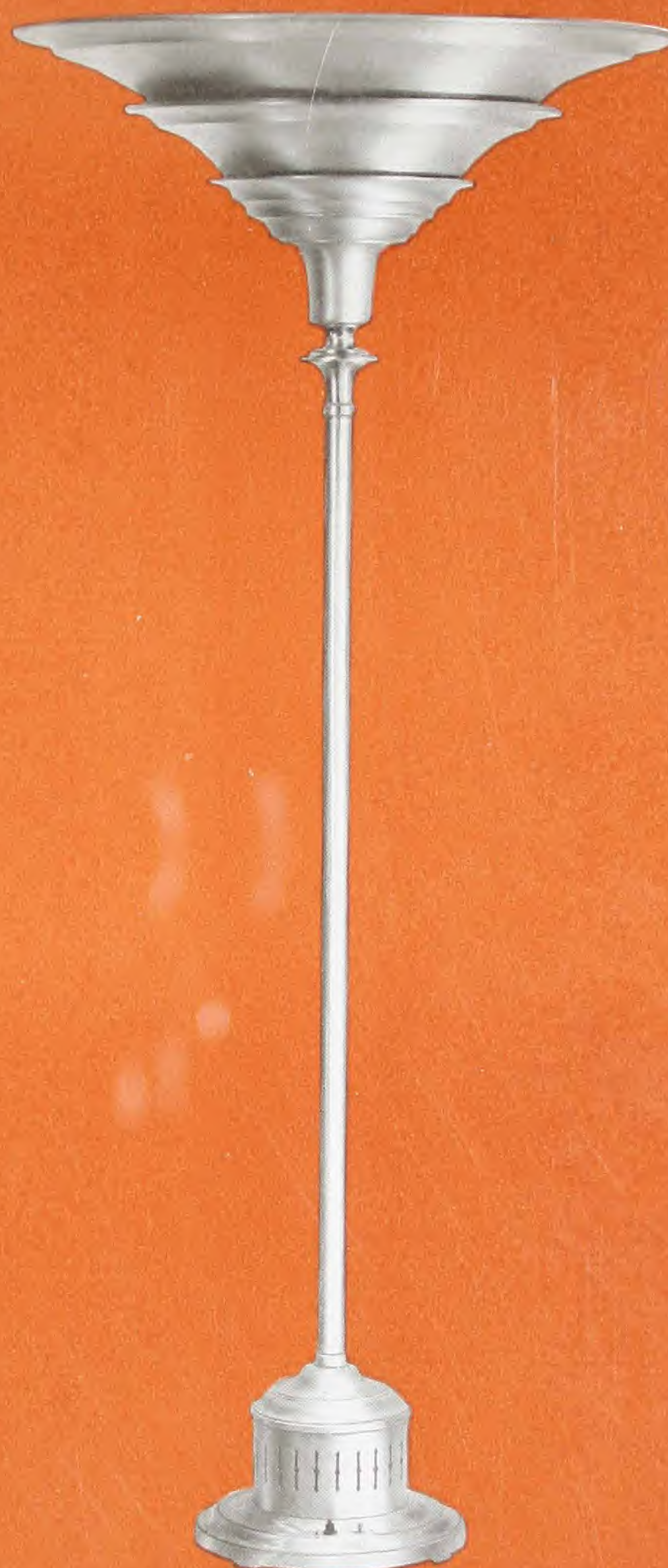


Illumination values in curve above are taken from actual test installations. These show values obtained from a single unit at given distances from center line of reflector at four different ceiling heights. Adjacent units will provide similar values so that the illumination will be "built up" with light from surrounding units.



MILLER *Mer-tung*

Transformer for 97-127 volt service is supplied and built into this torchere. Line voltage of location where units are to be used must be specified when ordering, so that proper connections can be made before shipping. The transformer has four taps: the 100-volt tap for voltages of 97 to 103; the 107-volt tap for voltages of 103 to 111; the 115-volt tap for voltages of 111 to 119; and the 123-volt tap for voltages of 119 to 127. Separate switches in the base control the Mercury and Mazda circuits.



| CATALOG NUMBER | DELIVERY CODE | FINISH | DIMENSIONS — INCHES — | | QTY. | STD. PKG. | |
|-------------------|------------------|--------|-----------------------|--------|------|-----------|--|
| | | | DIAMETER | HEIGHT | | WT. LBS. | |
| IL 1901 | D | Nuvon | 32 | 75 | 1 | 175 | |

Specify line voltage when ordering.
Has Mogul socket for one 400 watt size mercury lamp and four medium sockets for four 200 watt Mazda lamps.